

Title (en)

ARRANGEMENT FOR THE FORCED AIR CIRCULATION IN REFRIGERATORS AND FREEZERS

Title (de)

ANORDNUNG FÜR DEN ZWANGSUMLAUF VON LUFT IN KÜHL- UND GEFRIERGERÄTEN

Title (fr)

DISPOSITIF DESTINE A LA CIRCULATION D'AIR FORCEE DANS DES REFRIGERATEURS ET DES CONGELATEURS

Publication

EP 1613904 A1 20060111 (EN)

Application

EP 04726069 A 20040407

Priority

- BR 2004000051 W 20040407
- BR 0301406 A 20030415

Abstract (en)

[origin: WO2004092665A1] An arrangement for the forced air circulation in refrigerators and freezers, whose cabinet (10) defines at least one compartment (20, 30), a respective door (21, 31), and an air-cooling chamber (11) lodging an evaporator (12) and from which the compartment is supplied with a forced cooling airflow. The arrangement comprises: at least one suction duct (40), incorporated to the door (21, 31) and which is provided with air inlets (41), opened to the interior of the respective compartment (20, 30), and with at least one air outlet (42) turned to the interior of the cabinet (10). A return fan (50) is mounted so as to draw the air from different levels of the front part of the compartment, and to form inside the suction duct (40) a return airflow that is directed to the air outlet (42) of the suction duct (40).

IPC 1-7

F25D 17/08

IPC 8 full level

F25D 17/06 (2006.01)

CPC (source: EP US)

F25D 17/065 (2013.01 - EP US); **F25D 2317/062** (2013.01 - EP US); **F25D 2317/0653** (2013.01 - EP US); **F25D 2317/067** (2013.01 - EP US); **F25D 2317/0672** (2013.01 - EP US); **F25D 2317/0681** (2013.01 - EP US); **F25D 2317/0682** (2013.01 - EP US); **F25D 2400/04** (2013.01 - EP US)

Citation (search report)

See references of WO 2004092665A1

Designated contracting state (EPC)

DE ES FR GB IT PL

DOCDB simple family (publication)

WO 2004092665 A1 20041028; BR 0301406 A 20041207; EP 1613904 A1 20060111; MX PA05011162 A 20060124; US 2006196217 A1 20060907

DOCDB simple family (application)

BR 2004000051 W 20040407; BR 0301406 A 20030415; EP 04726069 A 20040407; MX PA05011162 A 20040407; US 55349204 A 20040407